

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Form PTO-1449 (Modified)  
(Use several sheets if necessary)

COMPLETE IF KNOWN

Application Number	09/781,046
Confirmation Number	9275
Filing Date	February 8/2001
First Named Inventor	Kangseng Wang
Group Art Unit	1632
Examiner Name	Thaia N. Ton
Attorney Docket No	54269.8002.US01

Sheet

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
TNT	AA	US 2002/0004240 A1		Wang	1/10/02	
TNT	AB	5,428,132		Hirsch et al.	6/27/95	
TNT	AC	5,521,291		Curiel et al.	5/28/96	

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		Office	NUMBER	Kind Code (if known)				
TNT	AD	WO	01/73094 A2		BIOAGRI CORPORATION	10/4/01	/	
TNT	AE	WO	00/29602		Cedars-Sinai Medical Center	5/25/00	/	
TNT	AF	WO	00/08924		Perry et al.	2/24/00	/	
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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
TNT	AH	International Search Report for PCT International Application No. PCT/US02/02895, dated 10/7/03, 7 pages.	
TNT	AI	International Search Report for PCT International Application No. PCT/US02/40492, dated 6/5/03, 4 pages.	
TNT	AJ	International Search Report for PCT International Application No. PCT/US01/07018, dated 12/3/02, 5 pages.	
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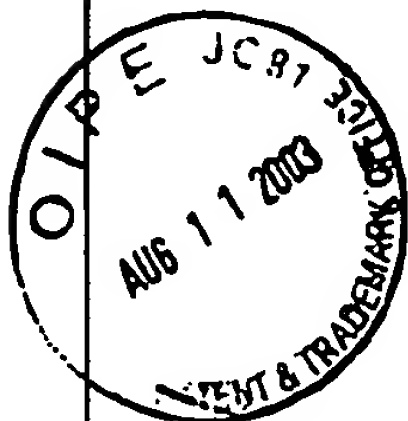
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TNT	AL	Bookbinder, L.H. et al., "Tissue- and Species-Specific Express of sp56, a Mouse Sperm Fertilization Protein, <u>Science</u> , vol. 269, pp. 86-89 (1995)	
TNT	AM	Burks, D.J. et al., "Interaction of a Tyrosine Kinase from Human Sperm with the Zona Pellucida at Fertilization", <u>Science</u> , vol. 269, pp. 83-86 (1995)	
TNT	AN	Chang, Keejong et al., "Effective generation of transgenic pigs and mice by linker based sperm-mediated gene transfer", <u>BMC Biotechnology</u> 2002, 2:5, <a href="http://www.biomedcentral.com/1472-6750/2/5">http://www.biomedcentral.com/1472-6750/2/5</a>	
TNT	AO	Cheng, Alice et al., "Sperm-Egg Recognition in the Mouse: Characterization of sp56, A Sperm Protein Having Specific Affinity for ZP3", <u>The Journal of Cell Biology</u> , vol. 125, no. 4, pp. 867-878 (1994)	
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TNT	AQ	FUSI, F.M., "In vitro production of human anti-sperm antibodies: effect of an oligoclonal antibody (F6) on sperm-egg interaction," <u>Journal of Reproductive Immunology</u> , Volume 29, No. 2, 1995, pp. 135-147.	
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TNT	AV	Kalab, Petr et al., "p95, the Major Phosphotyrosine-containing Protein in Mouse Spermatozoa, Is a Hexokinase with Unique Properties", <u>The Journal of Biological Chemistry</u> , vol. 269, no. 5, pp. 3810-3817 (1994)	
TNT	AW	Kameda, Kinu et al., "Comparative Studies of the Antigens Recognized by Sperm-Immobilizing Monoclonal Antibodies", <u>Biology of Reproduction</u> , vol. 46, pp. 349-357 (1992)	
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TNT	AY	Lacy, H. Marie et al., "Sperm protein 17 is expressed on normal and malignant lymphocytes and promotes heparan sulfate-mediated cell-cell adhesion", <u>Blood</u> , vol. 98, no. 7, pp. 2160-2165 (2001)	

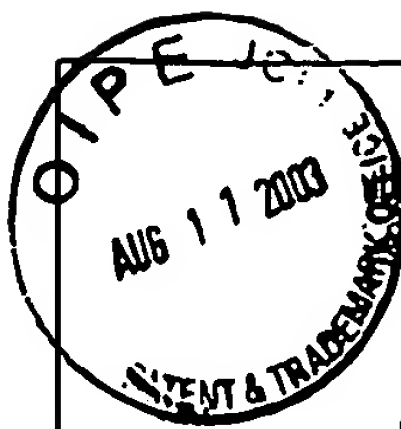
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TNT	AZ	Lu, Qingxian et al., "Sperm from $\beta$ 1,4-galactosyltransferase-null mice are refractory to ZP3-induced acrosome reactions and penetrate the zona pellucida poorly", <u>Development</u> , vol. 124, pp. 4121-4131 (1997)	
TNT	BA	Miller, David J. et al., "Complementarity between sperm surface $\beta$ -1,4-galactosyl-transferase and egg-coat ZP3 mediates sperm-egg binding", <u>Nature</u> , vol. 357, no. 6379, pp. 589-593 (1992)	
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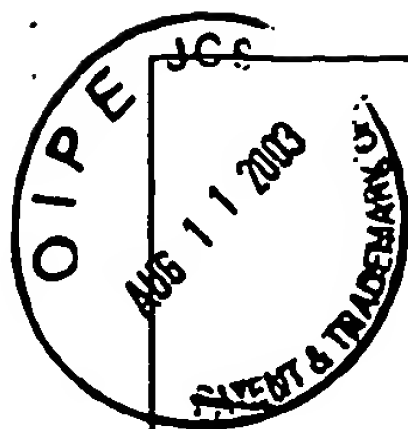
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TNT	BN	Varga, Csanad M. et al., "Receptor-Mediated Targeting of Gene Delivery Vectors: Insights from Molecular Mechanisms for Improved Vehicle Design", <u>Biotechnology and Bioengineering</u> , vol. 70, no. 6, pp. 593-605 (2000)	
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